

NEWSLINE

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Biotechnology in the TTEC spotlight



JACQUELINE MCBRIDE/NEWSLINE

Genaro Mempin, (left), of the Industrial Partnerships and Commercialization Office with Public Affairs' Scott Wilson, (center), discusses industrial partnering opportunities with visitors to the Laboratory's exhibit at Tuesday's TTEC LifeScience Conference at Wente Vineyards in Livermore.

By Charles Osolin

NEWSLINE STAFF WRITER

Technologies developed at the Laboratory to shut down disease-causing genes and to defend against terrorist attacks shared the spotlight Tuesday at the second annual Livermore LifeScience Conference at Wente Vineyards.

Organized by the TriValley Technolo-

gy Enterprise Center, the conference brought together more than 100 Bay Area businessmen and women, investors and researchers to learn about the latest trends and business opportunities in biotechnology and medical research.

Elbert Branscomb, LLNL's associate director for Biology and Biotechnology

See **TECHNOLOGY**, page 7

Unabomber's brother relives painful revelations that led him to 'do the right thing'

By Don Johnston

NEWSLINE STAFF WRITER

The realization that his brother might be the serial killer known as the "Unabomber" came to David Kaczynski when he began to "hear my brother's voice" in the manifesto published in the *New York Times* and *Washington Post* on Sept. 19, 1995.

As it would turn out, the manifesto penned under the title "Industrial Society and its Future" and submitted for publication by the Unabomber, became a key to the resolution of the case.

David Kaczynski recalled awakening "one particular morning with a crushing sense of depression. It seemed surreal, it seemed impossible... there might be

See **KACZYNSKI**, page 5

Anastasio to provide Director's update for Laboratory employees

Director Michael Anastasio will hold an all-hands meeting to give employees a Laboratory update at 1:30 p.m., Monday, April 19, in the Bldg. 123 auditorium. The update also will be broadcast live on Lab TV, channel 2. All employees are welcome to attend or view the talk.

German journalist discusses dramatic world changes following end of Cold War

By Bob Hirschfeld

NEWSLINE STAFF WRITER

"Alliances die when they win."

That's the axiom according to prominent international relations scholar Josef Joffe, who addressed LLNL's Center for Global Security Research last week.

Joffe, editor and publisher of the German weekly *Die Zeit* and a contributing editor to *Time Magazine*, contended that the world changed dramatically on Christmas Day 1991, when the hammer and sickle flag was lowered for the last time in Moscow's Red Square. The Cold War ended, and the United States assumed

See **JOFFE**, page 8

Earth Expo to spotlight Lab conservation efforts

Where can you go to learn how to make bio-diesel from cooking oil, learn about conserving the environment, and savor barbeque prepared by the LLNL Armed Forces Veterans Association while enjoying the mellifluous strains of mild rock music?

Why, Earth Expo 2004, of course, to be held from 11:30 a.m. to 1:30 p.m. Thursday, April 22, on the lawn area adjacent to the swimming pool.

The annual Lab event will spotlight innovative energy technologies as well as regional and local efforts to reduce waste, conserve energy and protect the environment.

"Widespread concern about energy issues should make related exhibits and displays of inno-



vative technologies of particular interest this year," said Kent Wilson, the Lab's recycling and Earth Expo coordinator. "Earth Expo is an opportunity to bring together people from the community, Lab researchers, government agencies and entrepreneurs working on a variety of technologies."

Laboratory exhibitors will include: the Energy and Environment Directorate; Energy Management and Mechanical Utilities; Environmental Restoration; Hazardous Waste Management; LLNL wildlife specialists; Water Guidance and Monitoring Group; LLNL Environmental Community

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Computing
high-wired act

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Canadian nuclear
waste team visit

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Heat seeking
lizard rocks

— Page 8



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Friday
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The first **national lab and university alliance workshop** on Ultrafast Electron Microscopies will be held today and Saturday at the Hilton in Pleasanton. The Website provides information on the workshop organized by the LLNL group. The event is sponsored by the National Nuclear Security Administration, E.A. Fischione Instruments Inc., Gatan Inc., FEI Company, JEOL USA Inc. and LEO-USA Inc. For more information, go to Website at <http://uem.llnl.gov> or contact Wayne King, 3-6547.

Saturday
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There will be a **scheduled power outage** today from 7 a.m. to 3 p.m. in Bldgs. 190, 194, 490 and Trailers 1925 and 1927. There will be an additional scheduled power outage beginning today at 7 a.m. and ending Sunday at 3 p.m. in Bldg. 241 and Trailers 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1413, 1456, 2425, 2428 and 2475. Air conditioning, heating and elevators also will be affected.

Tuesday
20

The Northern California chapter of the **American Institute of Chemical Engineers (AIChE)** will hold its 42nd annual symposium and trade show today at H's Lordships in Berkeley. The theme for this year's symposium is the "Hydrogen Economy and Fuel Cells." Professor Daniel Sperling of UC Davis will deliver the opening address, "The Hydrogen Economy: A Vision for the 21st Century." The featured keynote speaker is Bob Therkelsen, executive director of the California Energy Commission. Attendees will gain an understanding of the technical and business issues faced by this emerging industry. Speakers represent industry, academia and government. This year's symposium is co-chaired by Ravi Upadhye and Diane Spencer, both from the Laboratory. For more information, check the Website at <http://www.aiche-norcal.org/symposium.html> or contact Ravi Upadhye, 3-1299.

Wednesday
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Administrative Professionals Day is today, and the Time Zone will again have fresh flowers. Let the Time Zone help you express your appreciation with greeting cards, See's Candy, or with a beautiful, special priced bundle of three, six, or 12 roses. The Time Zone is located in Trailer 4128 and is open Monday-Friday, 7:30 a.m.-3 p.m.

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As part of the newly formed collaborative partnership between LLNL and the Naval Postgraduate School in Monterey, Professor Wendell Nuss of the Department of Meteorology at NPS will be speaking on "**Mesoscale Meteorology and Predictability**" on April 21. The lecture will be at 3 p.m. in the Bldg. 123 auditorium with a reception to follow. For further information, contact Harry Radousky, 2-4478 or Brenda Foster, 3-8257.

Lab's Miller has laptop supercomputing wired

Pat Miller's dream of creating a temporary, yet powerful supercomputer came true April 3. Volunteers, mostly carrying their laptops and even a few lugging desktops, helped network together the first-ever "Flashmob" supercomputer in the gymnasium at the University of San Francisco (USF).

Miller, of LLNL's Center for Applied Scientific Computing, teaches a computer science class at USF, and came up with the idea of an ad-hoc supercomputer, utilizing open source software to tie together hundreds of disparate computers linked by seemingly endless loops of cabling.

In the end, Miller and his students, using an industry-standard benchmarking program, achieved a respectable ranking of 180 gigaflops (billion floating point operations per second.)

Although problems arose with some of the computers' network interface cards, the Flashmob project was deemed an unconditional success.



BOB HIRSCHFELD/NEWSLINE

Pat Miller of the Lab's Center for Applied Scientific Computing created an ad hoc supercomputer earlier this month by linking together hundreds of disparate computers.

"We wanted to see if this was a viable concept for supercomputing, and indeed, we've proven that it is," said Miller, who is already considering plans for a "Flashmob II."

Lab to set SAIL with summer program for youth

The Edward Teller Education Center (ETEC) and Laboratory are hosting "Science Adventure Institute at LLNL," (SAIL), an exciting new summer program for children of Lab and NNSA employees entering 7th and 8th grades. The program has a forensic science theme and is geared for students who have a keen interest in science and math.

The curriculum and activities are aligned to the California Science Standards and highlight Livermore's science and technology. Program activities will take place at ETEC near the Lab's East Gate.

"We are excited to work with the Laboratory in offering students an enrichment opportunity connected to LLNL science," said Stan Hitomi, ETEC director.

"The institute is a much needed program that benefits children of our employees," according to

Ann Willoughby, manager, Community and External Relations, and a partner with ETEC in program development.

Two redundant SAIL sessions will be offered during the weeks of August 2 and 9, Monday through Friday, from 9 a.m. to 3 p.m. with optional adult-supervised care provided before and after normal program hours. Class size is limited to 20 children per session. U.S. citizenship is required.

The cost for the five-day program is \$250 per student, with an additional \$50 for the optional before-and-after program care. Enrollment begins Monday, April 19, and is limited to one session only per child. Register online at <http://education.llnl.gov/SAIL/>. For more information, call Linda Lucchetti in the Public Affairs Office at 2-5815.

Beryllium awareness refresher course available on Web

As part of the Laboratory's Chronic Beryllium Disease Prevention Program, the Hazards Control Department is e-mailing all workers at LLNL the Website where they can download a copy of: Beryllium Awareness Biennial Refresher Training (HS4258-R). This training is required every two years for workers at any DOE site where beryllium is used.

Employees need to be aware of its presence and health risks — even though they may not be exposed to or work directly with beryllium. If you are potentially exposed to or work with beryllium you must take a more in depth training class (HS4256 or HS4257). By downloading and read-

ing the booklet, you will receive LTRAIN credit for completing the required refresher training. You also can receive credit by going online and taking web class HS4258-W. Go to <http://www-hctrain.llnl.gov/> and click on Web-Based Training, then on HS4258-W, Beryllium Awareness. The course takes about 30 minutes to complete.

If you must take this class and do not have a Lab email address or ready access to a computer, contact your work supervisor for directions on how to meet this training requirement.

Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

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Amigos Unidos to host Cinco de Mayo celebration

Amigos Unidos invites employees to celebrate Cinco de Mayo on Wednesday, May 5, from 11 a.m. to 1 p.m. in the picnic/pool area.

Entertainment will be provided by Timbalero Salsa & Latin Jazz Band. Lunches of rice, beans, chips, salsa, tortilla, drink and a choice of carnitas, chile colorado or tamal are available for \$6 at the event or in advance. Pork or chicken tamales are also available for \$15 per dozen or \$8 per half dozen and must be pre-ordered by April 28.

For pre-orders or tickets, contact Gloria Davalos, 3-1410, Rey Bocanegra, 3-5309, Xavier Cabrales, 2-7448, Marian Barraza, 3-7063 or Irene Ortega, 2-6350.

NEWS OF NOTE



DDLS features astronomy in South Africa

The next presentation in the Director's Distinguished Lecturer Series features Khtoso Mokhele, president of the National Research Foundation, who will speak about "Astronomy In A Developing Economy — Advancing Science and Technology In The New South Africa," at 3:30 p.m. April 26 in the Bldg. 123 auditorium.

As president of the Foundation for Research Development (FRD), South Africa's funding agency for research in science, engineering and technology, Mokhele is deeply committed to the uplifting of disadvantaged communities in South Africa.

Born in 1955 in South Africa, Mokhele matriculated from a rural school and obtained a bachelors of science degree in agriculture. Then, on a Ful-

DDLS 2004

bright-Hays Scholarship, he studied at the UC Davis, earning a master's of science in food science and a Ph.D. in microbiology in 1986. Subsequently, he was awarded post-

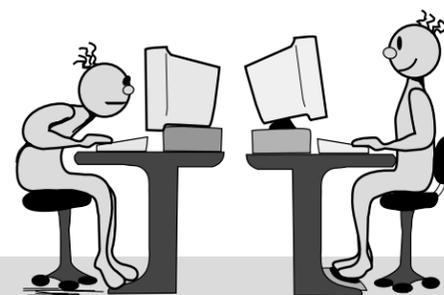
doctoral fellowships and worked in the laboratory of Nobel Prize-winner Hamilton O. Smith at Johns Hopkins University School of Medicine. Mokhele returned to South Africa in 1987 and held teaching and research positions before joining the FRD.

His talk will be rebroadcast on Lab TV channel 2 at 10 a.m., noon, 2, 4 and 8 p.m. on Thursday, May 6, and at 4 a.m., Friday, May 7.

For additional information, contact Mona Garcia, 2-5214, or Mary Callesen, 3-2810.

2-ERGO

Your Hotline
For Ergonomic Help



Engineering courses and training schedule available

The following classes are coming up at the Training Center, except where noted. To enroll in any class, use the Web link below to access the Online Course Catalog and enter the course number or call Karen Mathis, 3-4336, or Judi Johnson, 3-9551.

Online Course Catalog:

https://www-ais.llnl.gov/llnl_only/docs/hr/catalog/

EN2896 LabVIEW Advanced Application Development, May 24-27

The Engineering Education Office is offering a four-day on-site advanced course. This class is intended for the advanced LabVIEW user who has programmed for at least one year. It is designed to help developers become more productive with LabVIEW and TestStand. It is specifically geared to deliver the right tools, templates and training to help you build larger applications with greater confidence. Students receive a course library of approximately 100 reusable LabVIEW VIs, along with the VISTA Class Generator tool to help you build reusable components based on GOOP. Code templates are also provided to help you be more productive and consistent. Instructors for this course are experienced system engineers. Trailer 1879, 8:30 a.m.- 4:30 p.m., \$2,500-\$3,100. To enroll use the Online Course Catalog or call Judi Johnson, 3-9551, or Karen Mathis, 3-4336.

EN2593 Geometric Dimensioning and Tolerancing ANSI Y14.5 and ASME Y14.5.1 Standards Update, June 21-23 (Basic)

The Engineering Education Office is offering a five-day on-site course. Participants will become familiar with the current terms, symbols and rules in the revised edition of the Geometric Dimensioning and Tolerancing Standard. Trailer 1879, 8 a.m.-noon, TBD. Enroll online using the Online Course Catalog: https://www-ais.llnl.gov/llnl_plsql_lb_web_ll/get_course_schd_pg7.ll_get_course_sess_pr1?CourseNo=EN2593&EmpNo=, or call Karen Mathis, 3-4336.

EN2942-A Advanced Dimensioning and Tolerancing Level 1, June 24-25

The Engineering Education Office is offering a two-day on-site course. Level 1 covers the fundamental principles of applying geometric tolerancing to parts and assemblies. The principles of plus/minus and profile linear type stacks are also covered. It also includes form tolerances and the beginning principles of the boundary concept and boundary detail stacks. Trailer 1879, 8:30 a.m.-4:30 p.m. Cost: TBD. Enroll online using the Online Course Catalog: https://www-ais.llnl.gov/llnl_plsql_lb_web_ll/get_course_schd_pg7.ll_get_course_sess_pr1?CourseNo=EN2942-A&EmpNo=, or call Karen Mathis, 3-4336.

EN2942-B Advanced Dimensioning and Tolerancing Level 2, June 28-29

The Engineering Education Office is offering a two-day on-site course. Level 2 is at a higher level and covers more complex application and stack problems. It also includes axial boundary assembly stacks and orientation tolerances. It also provides an introduction to statistical tolerancing. Level 1 is a prerequisite to Level 2. Trailer 1879, 8:30 a.m.-4:30 p.m., TBD. Enroll online using the Online Course Catalog: https://www-ais.llnl.gov/llnl_plsql_lb_web_ll/get_course_schd_pg7.ll_get_course_sess_pr1?CourseNo=EN2942-B&EmpNo=, or call Karen Mathis, 3-4336.

EN2949 Introduction to Hurco Dates: TBD

The Engineering Education Office is considering offering a 20-hour on-site Hurco course. Level 1 is designed and structured to accommodate the entry-level programmer. All standard features available on the Hurco UltiMax® System II, III, IV and MAX Control are covered in detail. An overview of optional Hurco software is also presented. Level 2 is designed for the student who has operated the Hurco UltiMax® II, III or IV systems for at least six months. These students will benefit the most from this course. Training presented includes techniques to effectively utilize features of the Hurco control system to its fullest.

Time saving methods and advanced geometric programming are included. All Hurco options are also covered in the Level 2 course including Ultipocket, 3-D Option, Hurco DXF Translation and the Hurco PC product family. Class sizes are purposely kept small to insure full attention to each student's requirements. Estimated cost: \$1,050-\$1,300.

EN2777 Machine Shop Practices, monthly

The program is designed around the needs of beginning technicians, as they are called upon to build and/or modify experimental and prototype equipment or apparatus. Other disciplines may find the content and application of this workshop beneficial in assisting personnel to understand and apply machine shop practices and procedures. The program provides a limited number of hours for the introduction of concepts and procedures while allowing for practice and application using standard machine shop equipment. The program furnishes a basic toolbox with typical tools used by machinists for use during the workshop. Materials are furnished for recommended projects. A reference book is provided as part of the program cost.

Each workshop is designed around and scheduled using a four-hour block of time and will meet two days per week for four weeks. Safety training will be an integral part of the program. MTOS (Machine Tool Operation Safety) training will be used as appropriate and to augment the safety training provided during each different operation. Satisfactory completion of the MTOS Program will be recorded by LTRAIN upon successful completion of this workshop.

- Layout, measurement and handtools
- Bandsaw machine
- Drill press, drilling and related operations
- Lathe, use and application
- Vertical milling machine and its application

Bldg. 432, 7 a.m.-4 p.m., \$2,100
Enroll online using the Online Catalog: https://www-ais.llnl.gov/llnl_plsql_lb_web_ll/get_course_schd_pg7.ll_get_course_sess_pr1?CourseNo=EN2777&EmpNo=, or call Karen Mathis, 3-4336, or Judi Johnson, 3-9551.



NEWS YOU CAN USE

Canadian nuclear waste team visits Lab

The president of Canada's new organization for the management of all its spent nuclear fuel and the Canadian Nuclear Waste Management Assessment Team visited the Laboratory recently as part of an effort to develop recommendations for the long-term management of the country's spent fuel from nuclear power plants.

The five-day visit was hosted by Tom Isaacs, head of the Lab's Policy and Planning Office, and one of two non-Canadians serving on the assessment team.

"With the Laboratory's Yucca Mountain related activities and nuclear expertise, I was anxious for the team to meet here in Livermore," Isaacs said. "I have received nothing but glowing reports from the members and President Dowdeswell about their visit here."

The Canadian parliament created the Nuclear Waste Management Organization (NWMO) in November 2002 and charged it with investigating approaches to the long-term management of used nuclear fuel from Canada's electricity-generating power plants. Currently, Canada has 22 nuclear reactors located in Quebec, Ontario and New Brunswick.

Isaacs said NWMO is exploring the three options mandated by law for the long-term management of nuclear waste: continued storage at power plants; centralized storage; and a geologic repository similar to Yucca Mountain.

A preliminary discussion report is to be completed by summer of this year and final recommendations submitted to the Canadian government by November 2005.

NWMO President Elizabeth Dowdeswell has had a distinguished career in government, education and international affairs. From 1993 to 1998, she was the executive director of the United Nations Environmental Program. She has held a number of senior Canadian governmental posts.

Michael Ben-Eli, a cybernetician and international management consultant who was a close associate of R. Buckminster Fuller, led the nine-member assessment team with expertise in such varied disciplines as: nuclear engineering, political science, ethics and values, environmental economics, and policy making.

During their visit, the team received briefings on Lab efforts related to the Yucca Mountain repository project, energy, security, and risk related programs. They also toured the Corrosion and Materials Characterization facilities, the National Ignition Facility and the laser peening facility.

In addition to the tours and briefings, Dowdeswell also met with lab senior managers including Glenn Mara, Hal Graboske, Lee Younker, C.K. Chou and former Lab Director Michael May.

EARTH

Continued from page 1

Relations and the Lab Fire Department.

Among agencies offering informational displays will be Lawrence Berkeley Laboratory; DOE Oakland; Area Air Quality Management District, Alameda County Waste Management and more.

Information on mass transit and vanpools will also be available from Enterprise Rideshare.

Other Earth Day highlights include LLNL's "Fun with Science," a demonstration by Biodiesel ORL, office products with recycled material from Office City, LLNL's Blair Barnett's hybrid car group, and landscaping and gardening options from Alden Lane Nursery.

In addition, a video "Exporting Harm," produced by the Basal Action Network will be aired on LabTV Wednesday, April 21, and Tuesday, April 27. This video discusses environmental problems associated with waste electronics shipped overseas for recycling. The show will air April 21 on LabTV, Channel 3, at 10 a.m., 12, 2, 4, and 8 p.m., and 4 a.m. (early morning on April 22) and April 27 at 10 a.m., 12, 2, 4 and 8 p.m., and 4 a.m. (early morning on April 28).

Additional information on pollution prevention can be found at the P2 Website at http://www_epd/p2. Employees are encouraged to contact the Earth Hotline at E-ARTH (3-2784) with questions or suggestions regarding waste diversion at LLNL.

Technical Meeting Calendar

Friday
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ELECTRONICS ENGINEERING TECHNOLOGIES DIVISION (EETD)

"Statistical Detection of Signals based on FMRI Data," by interviewee Martina Pavlicova. 10 a.m., Bldg. 141, room 1104 Nyquist Room. Contact: Cathy Kenton, 4-3875.

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

"The Mysteries of the Eagle Nebula," by Dmitri Ryutov, LLNL. Noon, Bldg. 319, room 205. Contact: Wil van Breugel, 2-7195, or Sharon Taberna, 3-6290.

LLNL/NAVAL POSTGRADUATE SCHOOL

"Test Readiness in Southern Nevada," by Dave McCallen, LLNL Laser Science Engineering Division. 11 a.m., Mechanical Engineering auditorium, Naval Postgraduate School, Monterey. Contact: Harry Radousky, 2-4478, or Brenda Foster, 3-8257.

Monday
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BIOSECURITY & NANOSCIENCES LABORATORY SEMINAR

"The FACS on Biomolecular Recognition: Bacterial Display Peptide Libraries," by Patrick Daugherty, University of Texas at Austin. 2 p.m., Bldg. 154, room 1013. Contact: Julie Herberg, 2-5900, or Josie Morgado, 2-7181.

CHEMISTRY & MATERIALS SCIENCE /CHEMICAL BIOLOGY & NUCLEAR SCIENCE DIVISION

"Meteoritic Stardust and the Presolar History of the Milky Way," by Larry R. Nittler, Carnegie Institution of Washington, Dept. of Terrestrial Magnetism. 10 a.m., Bldg. 151, Stevenson Room 1209 (uncleared area). Contact: Ian Hutcheon, 2-4481, or Bonnie McGurn, 3-2764.

LASER SCIENCE & TECHNOLOGY PROGRAM

"Fiber Lasers: An Introduction and Review of Active Projects in LS&T," by Jay Dawson. 11 a.m., Bldg. 481, room 1000. Contact: Hao-Lin Chen, 2-6198, or Leticia Molina, 2-7715.

Wednesday
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MACINTOSH TECHNICAL SEMINAR SERIES

"Programming in Panther" will feature a presentation by LLNL electrochemist Dave Sopchak. Find out how Mac OS X 10.3, aka Panther, makes it even easier to make great, full featured applications using Apple's free developer suite. Sopchak will make a complete OS X program, start to finish, in about an hour. 10:30 a.m., Bldg. 543 auditorium. Contact: Duane Straub, 2-9774, or straub1@llnl.gov.

PHYSICS & ADVANCED TECHNOLOGIES /N DIVISION

"Nuclear Structure with 4pi Detector Arrays," by Ching-Yen Wu, University of Rochester. 10:30 a.m., Bldg. 211, room 227, badge required. Contact: John Becker, 2-9676, or Pat Smith, 2-0920.

ENERGY & ENVIRONMENT DIRECTORATE

"Remediation of Contaminated Fine-Grained Sediments with Chemically Induced Cracking as an Enabling Technology," by Ananda M. Wijesinghe, Environmental Sciences Division. 1:30 p.m., Bldg. 543 auditorium. Refreshments will be served. Contact: Camille Vandermeer, 3-2672.

CHEMICAL BIOLOGY & NUCLEAR SCIENCE

"SemiSPECT, a Small-Animal Imager Based on Eight CdZnTe Pixel Detectors," by applicant Hyunki Kim, University of Arizona, Tucson, Department of Optical Sciences. 9 a.m., Bldg. 151, room 1209 (Stevenson Room). Foreign nationals may attend if appropriate security plan is on file, which includes Bldg. 151. Contact: Tzu-Fang Wang, 2-9666, Kai Vetter, 3-8663, or Rosa Yamamoto, 2-0454.

LLNL/NAVAL POSTGRADUATE SCHOOL

"Mesoscale Meteorology and Predictability," by Wendell Nuss, Department of Meteorology, Naval Postgraduate School. 3 p.m., Bldg. 123 auditorium. Reception to follow. This is the first in a series of monthly lectures that will take place at LLNL and NPS. Contact: Harry Radousky, 2-4478, or Brenda Foster, 3-8257.

Thursday
22

RADIATION DETECTION CENTER

"ZAEA Nuclear Material Safeguards," by Young Ham, LLNL. 11 a.m., Bldg. 151, room 1209 (uncleared area). Contact: Ron Wurtz, 3-8504, or Christie Shannon, 3-6683.

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The deadline for the next Technical Meeting Calendar is noon, Wednesday.

AROUND THE LAB



Itinerant mountain lion killed outside Lab gates

The annual Good Friday demonstration outside the Laboratory gates last Friday took an unusual turn when a mountain lion tried to take refuge in some shrubbery located outside the Lab's entrances.

Livermore City Police shot the mountain lion at approximately 11 a.m., hours after the demonstration ended. Laboratory officials did not make the decision to kill the animal.

The California Department of Fish & Game, working with Livermore City Police, gave the order for the animal to be killed out of concern for public safety. Earlier in the morning, the animal had been spotted in residential areas located directly across the Lab. The lion had come from a residential area when it startled Livermore Police, who were

sectioning off portions of Vasco Road for the annual demonstration. The lion then took cover near an LLNL sign just outside Westgate.

LLNL and Sandia environmentalists were not sure if this is the same lion that had been spotted over several months on Sandia property.

Fish & Game and Livermore Police officials had discussed the possibility of tranquilizing and removing the animal. Because the tranquilizer would take some time to knock the animal down, Fish & Game officials worried the animal would move back



into residential areas, where it could harm the public.

The mountain lion had been in the area when 240 protesters gathered for the annual Good Friday demonstration. Protesters were told of the lion's location but continued with their demonstration. Sixty-one people were arrested and cited for obstructing movement on a street or public place. They were released later that morning.

Security department head Russ Miller complimented the Protective Force for a particularly stellar performance "managing the mountain lion on one side of the street and the demonstrators on the other, while coordinating both events with multiple outside law-enforcement agencies is a real challenge for any department."

KACZYNSKI

Continued from page 1

a 50-50 chance Ted wrote the manifesto. How I got through that day I'm not sure."

In a presentation to employees Tuesday, David retraced the anguishing process that led him to contact the FBI in the hope that the bureau could prove that his fears were unfounded. Instead, David was faced with the growing realization that his brother Ted was the Unabomber and the object of one of the largest manhunts ever conducted by the FBI.

David's wife Linda was the first to raise the possibility that Ted was the Unabomber, though she had never met him. She noted the location of victims, or the places from which devices had been mailed, coincided with places Ted Kaczynski had lived.

But at first, David could not accept this possibility, remembering his brother as a person of "sensitivity and decency" who would "never do anything like that."

"I read the manifesto online searching for a disqualifier," David said. "I was troubled that I couldn't find a disqualifier. Some sections sounded a bit like him. I thought maybe there was one chance in a thousand."

David pored over articles about the case and reviewed the list of victims but could not find a clear link to his brother. "Basically I came away with a sense of relief."

However, doubts persisted and he recalled other things about his brother — the fact he was a prolific writer and that his residences in Chicago, the Bay Area and Salt Lake City could possibly link him to victims there. He compared the writing in the manifesto to letters he had received from his brother, but remained uncertain of similarities he found. "I was afraid I was projecting my worry."

David thought a lot about these issues and discussed them with his wife, a philosophy professor at Union College in Schenectady, NY. He also reflected on the advice he gave to the troubled teenagers he worked with in upstate New York. "I was always advising kids to do the right thing."



JACQUELINE MCBRIDE/NEWSLINE

From left, Greg Edmonds of KGO Radio and Bob Melrose of KCBS Radio interview David Kaczynski after his presentation to Lab employees about the experience of realizing his brother, Ted Kaczynski, was the Unabomber.

When David awakened to the realization that his brother could be the Unabomber he decided to contact the FBI. If it turned out to be true, he said of the dilemma he faced, "I would have the blood of innocent people on my hands or the blood of my brother."

David also had to face the possibility that his brother, if found guilty, could be executed.

It was "painful" for him to reconcile the sensitive older brother from childhood with the man mailing bombs to people around the country. "Searching through my mind I began to remember stories," Kaczynski said, relating a story about how Ted fashioned a screen door handle with a nail and spool of thread so toddler David, who could not reach the handle, could let himself in.

With great apprehension David told his mother he had contacted authorities. She put her arms around him and said: "David I can't imagine what you've been going through. I know you love your brother and you wouldn't have done this unless you felt strongly."

When FBI agents arrived to talk to her, she

offered to serve them tea.

Two weeks later on April 3, 1996, Ted Kaczynski was arrested at his cabin near Lincoln, Mont. The FBI found a bomb ready to be mailed and a carbon copy of the manifesto.

"If we hadn't come forward someone would have been killed or maimed," David Kaczynski said. "Thank God we came forward and Ted was arrested safely."

But the arrest did not end the ordeal for David and his family. His role in the case was leaked to the press and he and his family spent the next two years dealing with the U.S. Department of Justice. "We were thrust in the role of playing Solomon," he said. "It was incredibly difficult. Ted was very ill."

"He's in a psychological prison with a brain-destroying disease called schizophrenia," David said.

Throughout the trial, David and his mother remained "isolated from the victims in court...it felt like a lonely place to be."

But after the trial they did meet with the families of victims "trying to reach across that gulf of pain," Kaczynski said.

He came to understand the "lifetime of trauma and pain that follow violence."

"The part that remains unresolved is my relationship with my brother," David said, adding he writes to his brother two or three times a year, but has never received a reply. "He's a person who was in anguish for many years."

David said he tries to remember, "That older brother, the good brother I knew is still a part of who he is."

The Security Awareness for Employees (SAFE) program sponsored the presentation, titled "Doing the Right Thing — When it's the Hardest Thing To Do." Kathy Puckett of SAFE, a former FBI psychologist who worked closely with David Kaczynski on the Unabomber case and who remains a close friend, introduced Kaczynski.

Puckett asks that if you notice indications of espionage or terrorism and wish to voice your concerns, as David Kaczynski did, you may call the SAFE office at 2-5557. All calls to SAFE are held in the strictest of confidence.



CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1992 - Mercedes 300TE wagon, 137k miles. Silver / tan leather. CD player. Recent valve job, timing chain, etc. No accidents. Excel cond. \$7900. 510-481-0110

1992 - Toyota Previa LE Van, 97K, VG Cond, AWD, a/c, a/t, Cruise, AM/FM/Cass, Pwr Wind, \$5400 (Blue/Bk) or Best Offer. 925-447-8780

2003 - Infinity, hot G35, Red/Beige leather 4Dr A/T A/C CD etc, moonroof 12,500mi \$25,450 call evenings 925-373-9608

1984 - GMC Caballero (Chevy El Camino). Loaded. New Paint. Can be seen on site. \$4500.00 Contact 925-371-8111

1996 - Jeep GC loaded, lthr, new tires & reg, great condition 95000 miles 6500 obo 925-803-9550

1993 - Mazda MPV, 125K mi, 6 cyl, all power options, nice shape, well maintained, original owner - \$3500.00 415-543-3643

1998 - 1998 Honda Civic Ex Coupe, AT, PS, PW, PL, MR, AC (needs repair) alloy wheels, cd changer, window tint, 115K miles. 6600.00 925-625-4060

1997 - BMW 528i 115,000 miles Blue in color, below blue book at \$13,500 209-772-2652

1990 - Jeep Cherokee Learedo-4.0 liter/6 cyl., 4x4, AC, AT, Power Everything, Tow PKG., Tinted Windows, LOOKS AND RUNS GREAT. 100 K mi., \$3,600/obo 925-376-0316

AUTOMOBILE ACCESSORIES

Hand controls for gas and brake pedels. Make offer 925-447-7751

Car carrier from Sears - fits Subaru wagons. Locks. \$50.00. 209-839-2266

Boyd Coddington 18 in custom rims 4 each with BF Goodrich G-Force 265/40ZR18 tires, off 2000 Ford Mustang, \$1000.00 for all 4 wheels 925-443-2819

BICYCLES

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Tandem Bicycle, asking \$500.00 Mel Pinto frame, 18 speed, Phil Wood hubs, Sugino cranks, three Shimano brakes, comfortable seats. 925-447-5490

BOATS

34ft. Magic 1996 off-shore speed boat. Twin 454 Magnum engines, 200hrs. sleeping cabin, 40ft. triple axle trailer. \$79,000 OBO. 925-634-9399

ELECTRONIC EQUIPMENT

Sony 27XBR25 T.V. New in 1992. Perfect like new cond. \$185. Call before 9pm. 925-376-1595

27 inch Sony trinitron color television with multifunction remote. Works great but we are moving. \$50 925-443-4413

HP Pavilion Desktop, NEW, big, fast, lots of software, RW drive, 160GB \$625 OBO. Cash preferred. 925-642-2630

Five foot tall CD tower. Solid iron construction. Holds 130 CDs. 925-838-9302

15 inch LCD/Flat Panel monitor, KDS Rad-5. Like new, sleek small footprint, 17 inch CRT view area. - \$210 415-543-3643

PC, 333MHz, 17 inch monitor, Office 2000, Laser Printer HP 5L. \$100.00 925-935-5004

GIVEAWAY

Electric dryer in good condition. Pickup or can deliver in east bay for \$20. 925-200-4241

Firewood - cut lumber, Pool supplies - muriatic acid, Left-over siding pieces - great for kids playhouses, doghouses, etc. 925-443-4413

HOUSEHOLD

CARDBOARD BOXES, STURDY for moving/storage:: 40 for \$50 Call 925-447-7070

Student drafting/architect table, top 30 in. by 48 in, adjustable leg height, excel cond. \$35/obo. 925-229-2240

GE Electric Free-standing range, white and self cleaning. \$50.00 925-455-6310

Bunkbed - Oak, 3 drawers underneath, Converts to two separate twin beds, excellent condition, \$100 925-443-4413

Couch/loveseat, beige shades. \$200 Rectangular glass patio table, trimmed in green. \$20 Oak computer table. \$45 All good condition. 925-998-2620

Twin waterbed includes frame, headboard, 6 drawers under bed, mattress, safety liner and heater. In good condition. \$50 OBO 925-455-1596

Apartment size Kenmore dishwasher, like new-\$100. Holds lots of dishes while taking up little space. 925-449-6334

ROUND Glasstop Table with light marble-colored edging. Decorative antiqued silver legs with 4 matching chairs. \$250 OBO. Delivery to Lab. 925-606-1286

HUTCH, Early American \$100.00, Vitamaster Treadmill, 2.0 HP, calorie counter, time, two hand rails, \$175.00, FREE moving boxes. 209-599-3994

Matching white Kitchenaid double oven, cook top, and over the range microwave. All

work great. Remodeling due to broken dishwasher. \$500 OBO. 925-373-9319

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LOST & FOUND

Lost brown corduroy jacket in or near B332. Please call if found. 209-835-7269

MISCELLANEOUS

2 Madonna Tickets. June 9th @ 8PM. San Jose-HP Pavillion. Lower Reserve, Sec 102, Rw16, Seats 1&2. \$425.00 for both. 209-634-9438

Tools for sale, new router and small table, pipe wrenches, Skillsaw 77, rigid pipe threader and dyes, handbelt sander, hand tools and misc. 925-455-6422

Student drafting/architect table, top 30 in. by 48 in, adjustable leg height, excel cond. \$35/obo. 925-229-2240

Boys and Girls clothes - Gap, Old Navy, Gymboree. Excellent prices and condition. 925-998-2620

SACRAMENTO KINGS PLAY-OFF TICKETS Available for 1st and 2nd round. Great seats - Section 106, Row R, Seats 3 & 4. Call for pricing. 925-606-1286

Trimmer, 6 hp Troy-bilt. Low hours on motor. \$200 925-447-7751

Fisher-Price Dollhouse, elec. lights, sound effects, etc. Includes family, furniture, horses/stable, and working jucuzzi. Perf. Cond. \$70 or BO. 925-516-2774

Block Sale - 4-24 (8:30-1:30) - Toys, crib, lawnmower, rototiller, misc. - Highland St/Amberwood, Livermore 925-447-1954

Mountain Bike, Med sized excel cond \$60 - Tabletop Scroll Saw, like new \$55 e-pics avail 925-552-6684

Childs urban fold-up scooter. \$5 925-447-5012

Longaberger Baskets, Pottery & accessories available. Retired items and current items. 925-449-6048

Weber BBQ charcoal with propane assist. Comes with rotisserie and all attachments. Stainless steel work top. \$100.00 925-443-2808

For Sale. Wood stove, Pacific Energy Super 27. Great condition. New sells for \$1000. Will sell for \$300 or best. 209-825-8967

Weight bench. Good quality construction. Welded frame and strong up rights. Mint condition! \$50.00 925-373-6255

MOTORCYCLES

2000 - Harley Davidson Dyna

Glide FXDWG - Like New - Show Room Condition - 15,000 miles - Lots of Extras - \$15,000 firm. Contact Hap at 209-321-4298

2001 - Banshee-350 with 3 quad trailer super clean with to many after markets to list. 4,500 OBO. Jeff. 925-240-8800

1999 - Yamaha WR400 Runs Great. Looks great. Quick and fast. Lots of extras. Green Sticker, last year for street legal. \$4000 925-449-4635

Motorcycle trailer by Shorelander. Carries 3 bikes. Current registration. Spare tire. \$450 925-683-7795

1993 - H-D FLSH, black, 88 inch motor, extras. 48,500 miles \$10,500 925-447-7751

0000 - Invader Race Kart, Cadet chassis, Briggs. \$1000 209-838-0304

1999 - Honda Valkyrie Interstate (new in 01) full touring. 1520cc, 9k miles, full fairing, radio, intercom etc. Babied for 3 yrs-now must sell. 510-538-1711

1994 Harley Dyna Low Rider 17K miles, detachable windshield, sissy bar & saddle bags, 3 seats, cam, carb, pipes, extras, excellent, \$11700 obo 925-634-4408

MUSIC INSTRUMENTS

Ampeg SS-140W Stereo Guitar Amplifier 2x12 speakers, A&B channel switching, Preamp-out/power-amp in, XLR outputs, FX loop. \$325 925-625-5522

Suzuki violin, 1/4 size, Wolf violin headrest (1/2 size), Violin Strings, all like new. Make offer 415-543-3643

Fender Prodigy Bass Guitar. New Bridge and Strings. \$200. Bass Amplifier Fender BXR 100. Both Work great. \$200. \$350 for both. 925-989-1159

PETS & SUPPLIES

Queensland Heeler puppies - Approx. 5 weeks old. Adorable male & female free to good home. Call 925-292-0134

GIVEAWAY - 7 month old male Rottweiler named Dante and large dog house. Call for photo. 209-836-4550

Black cat needs loving home. Male, neutered, 5 yrs., shots up to date, indoor/outdoor, good mouser, best if only cat. 925-229-2240

Cat-male, declawed, orange tabby, (4 yrs). Needs home (have too many). Buff Tabby female (2yrs), loves cats/people. (neutered/spayed) Indoor only. 209-839-2266

RECREATION EQUIPMENT

Home Gym. 5 Excecises. Cable/Pulley configuration. Great condition! Used mostly to hang clothes. \$100 or best

offer. 925-292-5042

Porta-Court: Portable basketball hoop, pole and backboard. Excellent condition, \$45 925-443-4413

Golf Clubs - Men RH Titleist 981 irons, 3-PW. Rifle shafts. \$225.00 925-838-9302

Baseball Mitt, left-handed Mizuno power close, 12 inches, like new, make offer 925-447-7751

Dive equipment, Most never used, new dry suit, regs, computer, tanks and more. 209-239-6918

Trampoline (Hedstrom brand) 8 ft. dia. with enclosure. Max weight of jumper 120lbs. \$250 925-447-5012

Olympic weight bar. Pro quality, 5 foot training bar. like new! \$55.00 925-373-6255

Tent-Military surplus, waterproof vynal Command Tent. 18 ft octagonal shape. Good condition, in storage last 4 yrs, needs wash down. \$100.00 OBO 925-960-1788

Skis. Soloman Crossmax 185cm w/ pilot binding system. Barely used one season. Well under end-of-season sales at \$400 obo. 925-454-9253

Bike trailer/jog stroller. Molded hard plastic bottom. Sun shade cover. Holds two children. \$50.00 925-606-1972

Aerobic Rider exercizer bike. \$65/obo 925-447-4126

Inground pool slide, left hand curve, good condition. \$50.00 o.b.o. 925-426-8139

Snow skis, Rossignol, size 158 w/marker bindings, ladies Noridica boots size 6, poles. Used very little, ex condition. \$100. 925-455-8238

RIDESHARING

Modesto - Available parking for LLNL carpools & vapools at St. Dunstons Episcopal Church 3242 Carver Rd. About 3 miles from freeway. Contact 209-529-8243

Salida Blvd (Denny's off Pelandale) - Immediate opening in Daves Luxury vanpool, captain seats, reading lights cellphone 8-4:45 ridership-based fares 209-404-6680, ext. 3-3194

Modesto/Ripon - 14 Passenger van has openings available for full-time riders. 99-120-205 route. 8:00-4:30 schedule, can possibly accommodate 4:45. 209-544-6411, ext. 2-2727

Ceres/Turlock - Seeking new riders for a 9/80 work week as well as a relief driver. Hours 7:30am to 4:45pm. 209-572-2073, ext. 2-0638

MANTECA - 7:30 to 4:00 work hours. Daily drive rotation. Meet at Manteca Marketplace Chevron. Yosemite & Union. 209-823-5593, ext. 3-8539

PATTERSON - Vanpool has seats available for M-F/7:30-4:00 shift. Pre-tax transportation and Guaranteed Ride

Due to space limitations, Newsline may withhold ads that have already run. They will still appear on the Web.

TECHNOLOGY

Continued from page 1

Research Program, opened the conference with an animated discussion of "What it Means to Have a Genome." Branscomb said recent breakthroughs in the science of DNA sequencing have produced a wealth of new information about the molecular basis of life, from single-celled bacteria to complex organisms including humans.

Branscomb said genomics has sparked a "basic shift in our view of life — that living systems are information-driven," relying on the chemical coding in their DNA to determine everything from their evolution from simpler life forms to their behavior. But, he added, scientists are still a long way from solving the intricate regulatory mechanisms that determine when, where and how particular genes become active.

"We have come to a turning point in the history of the effort to understand life," Branscomb said, "yet it is impressive how little we do understand about it. As rapidly as our knowledge of life is expanding, our knowledge of what we don't know is expanding even more rapidly."

One technique for furthering science's understanding of gene functioning, known as gene silencing, was described by LLNL chemical engineer Allen Christian. Christian, a group leader in the Biodefense Division of BBRP, and his team have developed a unique method of interfering with gene functioning using a hybrid

molecule consisting of a short strand of DNA coupled with a strand of its close cousin, RNA.

Christian said the molecules, called "short interfering hybrids," or siHybrids, are more effective, longer lasting, and less expensive than the siRNA molecules currently used for gene silencing. He said SiHybrids also have more potential therapeutic applications because they're less likely to damage living cells. Researchers at UC Davis, for example, are testing the hybrids' ability to shut down genes that play a role in prostate, pancreatic and lung cancer.

Christian said he and his colleagues at LLNL are also exploring the possible use of the hybrids to silence the genes that make bacteria resistant to antibiotics.

A third Laboratory speaker at the morning session of the conference was Roger Werne, chief engineer for the Nonproliferation, Arms Control and International Security Directorate. Werne discussed the three chief types of weapons that might be used by terrorists — biological, chemical and nuclear — and said biological weapons are the most feared because they are relatively easy to spread and difficult to detect until symptoms appear, when it may be too late for effective treatment.

"The key to survival for biological agents is early detection and treatment," Werne said,

Werne said chemical weapons, while relatively small, difficult to detect and fast acting, have only met with limited success efficacy, even in warfare, because they are difficult to

make and tend to disperse rapidly.

"The nuclear threat," he said, "has low probability but disastrous consequences if one were to occur."

Werne said international efforts to prevent nuclear weapons and weapons-grade materials from falling into the hands of terrorists appear to have been largely successful. And so-called "dirty bombs," which are designed to spread radioactive material when they explode, may not pose as significant a threat. "Any deaths would probably be caused by the explosion rather than by radioactive material," he said.

Werne noted that LLNL and other national laboratories are actively developing technologies to help detect biological and chemical attacks and to prevent weapons and radioactive materials from entering the United States.

But turning those technologies into useful products and getting them into the hands of law enforcement and emergency management personnel represents a multi-billion-dollar market opportunity for the private sector, he said.

"The biological and medical area is especially ripe for commercialization," Werne said, "because it's dual-use technology," useful both for homeland security applications and to improve general human health and well-being.

The conference also featured panel discussions involving chief executives of area biotech companies and venture capital experts, a "mini trade show" with booths promoting local biotech organizations, and a wine reception.

CLASSIFIED ADS

Home programs available. Fares based on ridership. 209-892-2118, ext. 2-9502

Ripon - Looking for carpool out of Ripon. Working hours 7:00 - 3:30. 209-599-4793, ext. 3-9587

Orinda - Lamorinda carpool seeks 4th rider/driver. Lab hours 8am-4:45pm. Carpool meets near St. Stephens and Hwy 24. 925-253-0498, ext. 2-9823

San Jose - Carpool wanted. M-F, 8 hours/day at LLNL. Hours flexible. Prefer 6am-3pm work schedule 925-321-2061, ext. 3-3157

Stockton - Attention 9/80 workers. SMART, has a bus leaving from Stockton for 9/80 hours of 7:00 to 4:30 contact Joseph Warren at home at, 209-951-8738, ext. 2-9183

SERVICES

Experienced and reliable housecleaner. References available. Call 925-243-1622

SHARED HOUSING

Pleasanton - Female roommate needed for 2br/2ba apt near Bart/580. I am a quiet, neat UCB grad student. No smkg, no pets. \$625/month + 1/2 utils. 510-409-4002

Livermore - furnished room for rent. Clean/quiet. Pool. No pets/no smoking. \$550.00/month. Share utilities 1/3. Deposit. Mature adult. 925-449-1128

TRUCKS & TRAILERS

1972 Moterhome 89,000 mi Very good condition. A great deal at only \$1,500 209-577-6543

2001 - FORD EXPLORER SPORT TRAC 4X4 35K Miles, Leather, Loaded Ford Certified Preowned Warranty \$16,000 OBO 925-337-0423

1986 - Isuzu SuperCab pickup, white, 108K miles, good condition, new upholstery/carpet, bedliner, trailer hitch, \$1900 obo. 925-449-4396

1979 - 21.5 ft Vaquero travel trailer, fully self contained, qn bed, dinette, roof AC, hot water tank, shower, spare tire, hitch. Good condition in & out \$2,395. 925-606-6352

1989 - 34 ft. Holiday Rambler Motor Home 17,900 miles, Like New \$22,500 209-772-2652

1998 - 4x4 Ranger Supercab XLT 4.0 liter, 5 speed manual, 55k, Toreador red, Arma spray in bed, Leer 100XL shell, Draw-Tite Class III tow hitch \$9,800. 925-443-1769

VACATION RENTALS

Cozy mountain cabin with lakes, fishing, hiking. 4bedr, 2bath, wood burning stove. Great spring fun? Near Arnold. 925-245-1114

Sooo cute beach cottage in Santa Cruz. 2 bedr, 2 bath, 4 blks from beach. Fully equipped kitchen, spa. Near boat harbor. 925-245-1114

Pioneer, CA - Great mountain

vacation home! Located 1 mile off highway 88. 4 brms 3 bath, view. 20 Min. from Jackson 725 WK 325 WKE. 925-784-3945 Cell 925-292-0757

Pinecrest - (Off Sonora Pass Road), 3 bdrm/2 bath, frplc w/wood, microwave, dish-washer, pool table, large deck and view up No. Fork of Tuolumne, \$195/wknd. 925-449-5513

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. LLNL rates for year-round reservations. 925-449-0761

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished, all amenities, Off-Season Rates Now, Reserve Now for Summer Vacation! 209-599-4644

Cancun, Mexico - 1 and 2 BR waterfront appartments in Playa del Carmen, south of Cancun, Mexico, available all year, starting at \$700 per week 415-613-9900

Solana Beach/Del Mar - Oceanfront condo, Deluxe 2br., 2 1/2 ba., fully equipped, tennis, pools jacuzzis, gated and covered parking, near San Diego attractions 925-443-2271

WANTED

Wanted- Person to help with yardwork, painting, auto repair, odd jobs, weekends or evenings Livermore or Pleasanton 925-447-7070

WANTED: 1977-1979 VW Diesel Rabbit. Straight accident free with no sun roof in

good cond. Will give it a good home. Doug 925-375-1595

Moving boxes. All sizes. We will pick up. 925-456-5848

ARTIST wants a mannequin to borrow buy or steal. 209-526-6272

WANT TO BUY - Ladies mountain bike to fit 5ft 4in rider. Must be relatively new model. 415-543-3643

WANTED: One or two bedroom home, duplex, or apt. to rent or lease for retired couple. Will care for yard and give it TLC. 925-447-4126

BLOCK YARD SALE in TRACY - Saturday April 17 from 7:30AM to 3:00PM. Several neighbors getting together on Ridgeview Drive. 800-555-1212

Bass guitar, amp and case for teenage son desiring to be a legend, Either individual items or all would be fine. Brian or Joann 925-449-1318

Moving boxes of various sizes. Contact Beverlee. 209-835-8343

Wanted approx. 20 ft older motor home fully contained 925-240-6311

We need MOVING BOXES for upcoming move to Livermore. We will pick up. Thank you. 925-240-0678

Washer and Dryer donation for Mens Recovery Home in Brentwood. You supply, we pick up. Donation Receipt. 925-382-4478

Tutor/Algebra- Looking to hire a Algebra Tutor for Teenage Son in Tracy 209-833-6990

Looking for lifted/non lifted

truck. Chevy/ ford. Needs to be under 8k with stereo (cd) and AC. 925-447-4840

WANTED: Rolling Frame from ATV Quad. Any Make. Any Year. 925-455-1730

HOT WHEELS from the 60s, 70s, and 80s. If you have any diecast vehicles, please call me. 925-325-1123

WANTED: One or two bedroom home, duplex, or apt. to rent or lease for retired couple. Will care for yard and give it TLC. 925-447-4126

BLOCK YARD SALE in TRACY - Saturday April 17 from 7:30AM to 3:00PM. Several neighbors getting together on Ridgeview Drive. 800-555-1212

Bass guitar, amp and case for teenage son desiring to be a legend, Either individual items or all would be fine. 925-449-1318

BRICKS. Will the man who responded to my ad for buying used clay bricks please call me. I lost your telephone number. Thanks, 925-606-0260

Moving boxes of various sizes. Contact 209-835-8343

Wanted approx. 20 ft older motor home fully contained 925-240-6311

We need MOVING BOXES for upcoming move to Livermore. We will pick up. Thank you. 925-240-0678

Washer and Dryer donation for Mens Recovery Home in Brentwood. You supply, we pick up. Donation Receipt. 925-382-4478

Some like it hot: a look at the coast horned lizard

Picture this: As the late morning sun warms the ground, a prehistoric creature slowly crawls out of his underground lair to bask in the sun. He is fearsome looking and well armed against attack, his body and tail covered in spiny scales, and he sports a large crown composed of six or seven reddish horns projecting devilishly from the back of his head. His body is flattened and tank-like, with a huge round abdomen flanked on both sides by a row of fringe-like scales. Underneath, his belly is bright yellow and cream, while his back is a mottled with brown, rust, cream and black splotches that allows him to blend in to his surroundings amazingly well.

After warming himself in the sun, the reptilian hero begins hunting for his prey — hapless ants and other small insects that wander by. He hunts at a leisurely pace, as he prefers for the food to come to him rather than spending a lot of time and energy zipping around like his more slender lizard cousins do. Later in the day, when he is full of a delicious meal of ants, he will begin looking for a female to impress with a series of vigorous head bobs, pushups and a seductive pawing of the air with his clawed toes. If the female finds this male's antics attractive, she will allow him to flip her on her back and mate with her. If not, she will ignore him and go on her way, or if he is very persistent she may dig a burrow in the soil to escape until he forgets about her and moves on. Hunting, basking and looking for mates continues until the heat of the day becomes too much, at which point our spiky friend will once again retreat underground, where he will nap until it is a more comfortable temperature outside.

This is a typical spring day in the life of the coast horned lizard, *Phrynosoma coronatum*, who roams the hills and valleys of central and southern California. This lizard, which is sometimes mistakenly called a horny toad because of its squat toad-like appearance,



By Jennifer Garrison



PHOTO BY ROBERT POTTS © CALIFORNIA ACADEMY OF SCIENCES

A horned lizard, above, surveys his land. A puffed-up horned lizard, top right, tries to scare off its human captor. The yellow belly of a coast horned lizard is shown at bottom right. These animals should not be kept as pets, as many die in captivity. The coast horned lizard is a Federal and State Species of Special Concern. The California Department of Fish and Game gives them full protection from collecting, making it illegal to take them from the wild to keep as pets.



PHOTO BY MICHAEL VAN HATTEM



PHOTO BY JENNIFER GARRISON

lives its life in tune with the sun. It doesn't bother getting up until it is warm and sunny outside, and sensibly takes a siesta on hot afternoons. During the cold winter days, it will hibernate underground to avoid the chill. Anyone who spends time in Livermore can appreciate the brilliance of this lifestyle. And of course, any creature that eats ants is surely a welcome guest in most neighborhoods.

An adult coast horned lizard is about four inches long, and seems almost circular when viewed from above. Its stomach is so large because it must consume a

lot of ants to get enough calories to survive (ants are mostly exoskeleton). In addition, females carry a lot of eggs in that round belly, with single clutches ranging from six to 21 eggs. These eggs are laid in nests created in loose soil in April - June, and the tiny spiky hatchlings appear in July or August.

Because it has such a large stomach, the horned lizard cannot run fast to get away from predators (such as loggerhead shrikes, roadrunners, coyotes and foxes). It makes up for this awkwardness by being a good master of disguise. It is virtually impossible to see a horned lizard sitting still from a distance of more than a couple of feet. The best way to spot a horned lizard is when it dashes away when you get too close. They will almost always stop within a few feet and sit still again. If you are watchful, you can follow it and get a good long look. Should its camouflage fail, the horned lizard's dangerous looking armaments will protect it from many predators. Those that persist in attacking may be repelled by foul tasting blood it squirts from its eyes as a last defense.

Coast horned lizards spend most of their time in open areas with plenty of sun and ants. They live in a wide variety of habitat types, from conifer forests and riparian woodlands to grasslands and chaparral scrub. Around the Tri-Valley area, they can be seen basking in the sun on Mount Diablo, the Altamont hills, San Joaquin Valley and on Site 300 fire trails. The coast horned lizard, once common, is now reduced in number because of habitat loss due to development, pesticide use (which reduces its insect prey), predation by domestic cats, collection by the pet industry and its bad habit of sun bathing on the side of the road. Because it relies on blending in with its surroundings, the coast horned lizard often does not move when approached by predators. However, in the case of an encounter with an automobile this proves to be a poor adaptation, and lizard mortality is high along roadsides. So drive carefully this spring and summer, stay off the roadsides, and keep an eye out for our ant-eating friends.

JOFFE

Continued from page 1

an unchallenged position as the world's undisputed superpower.

But despite its increased authority, the United States now faced a lineup of increasingly restive former allies. Joffe compared the situation to Gulliver and the Lilliputians.

During the Cold War, he said, the United States was restrained by the U.S.S.R. and the Warsaw Pact, much as the size-superior Gulliver was tied down by the Lilliputians.

But the diminutive islanders in the Jonathan Swift classic, who depended on Gulliver as long as he was restrained by ropes, suddenly found that when he was unbound, life became unpleasant.

As explained by Joffe, "Gulliver no longer had to fear other powers and more importantly, Gulliver no longer depended on, or thought he no longer depended on others. And the Lilliputians, who were Number One with Gulliver, now thought that 'the Soviet Union is gone, maybe we should fear our protector more than our former enemy'."

Joffe explained, "During the Cold War, the United States deferred a lot to its western European allies because it cherished and valued western European strategic real estate enormously. Suddenly, Gulliver no longer wanted to pay the kind of rent he was willing to pay during the Cold War."

To illustrate his point, Joffe repeated an oft-quoted remark by President Bush, "When it comes to our security, we really don't need anybody's permission."

But Joffe says such a position causes "symmetrical behavioral consequences." He calls it "soft balancing" which is best illustrated by the opposition to the Iraq war by former allies France and Germany, along with Russia. These countries knew they could not defeat or weaken the United States by engaging in "hard balancing" which involves stronger measures including military action.

The motivation was power. According to Joffe, "Imagine what the Europeans, Russians, Chinese imagined a year ago: a victorious United States, a sustainable victory, the slow remaking of Iraq followed by the remaking of the Middle East, with the U.S. as a dominant power ensconced on the top of the heap. This did not sit well with the other powers that were engaged in the soft balancing."

Continuing with his Gulliver analogy, Joffe summarized the outcome of the Lilliputians' soft balancing one year after the United States overthrew Saddam. "What we are currently witnessing is a grand drama of overestimation of power. As far as the Lilliputians are concerned, with all their efforts, including ganging up against the U.S. in the Security Council, they could not achieve what they wanted to achieve, which is to stop the war against Iraq."

Joffe continued, "For Gulliver, he is now in the middle of a dramatic frustration of great excess of power, too. No matter what side you are on regarding the Iraq situation, it's a failure of unprecedented military power to achieve its political ends. There was no problem slicing through Saddam's army. And that wasn't the objective. It was not a war of necessity. It was a war of choice; not a war of defense, but a war of order, internal and external physical order in the Middle East."



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